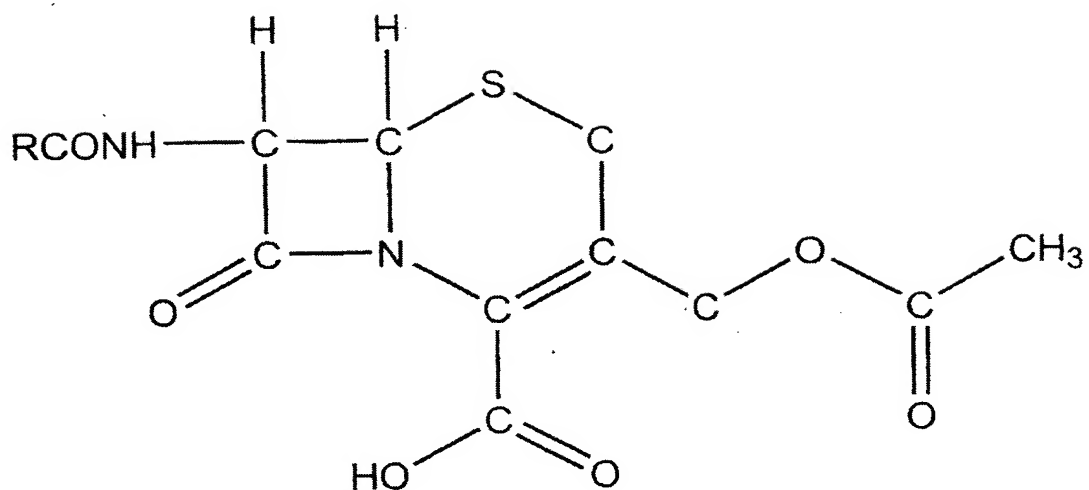


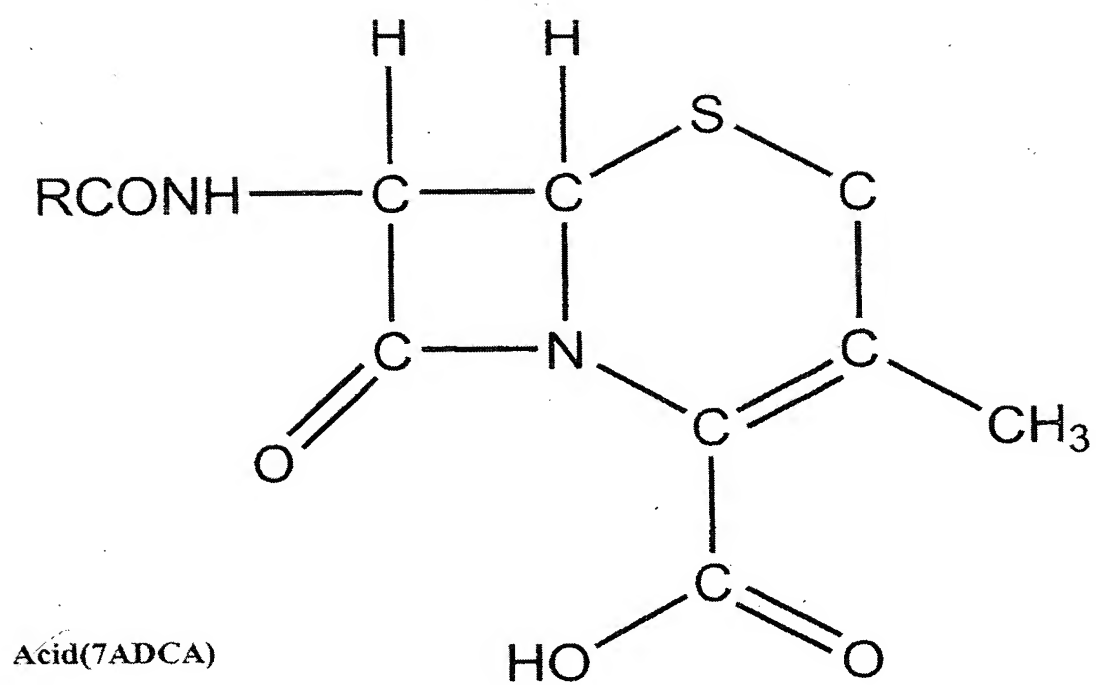
6-Aminopenicillanic Acid(6APA)

Fig.1



minocephalosporanic Acid(7ACA)

Fig.2



7-Aminodeacetoxycephalosporanic Acid(7ADCA)

Fig.3

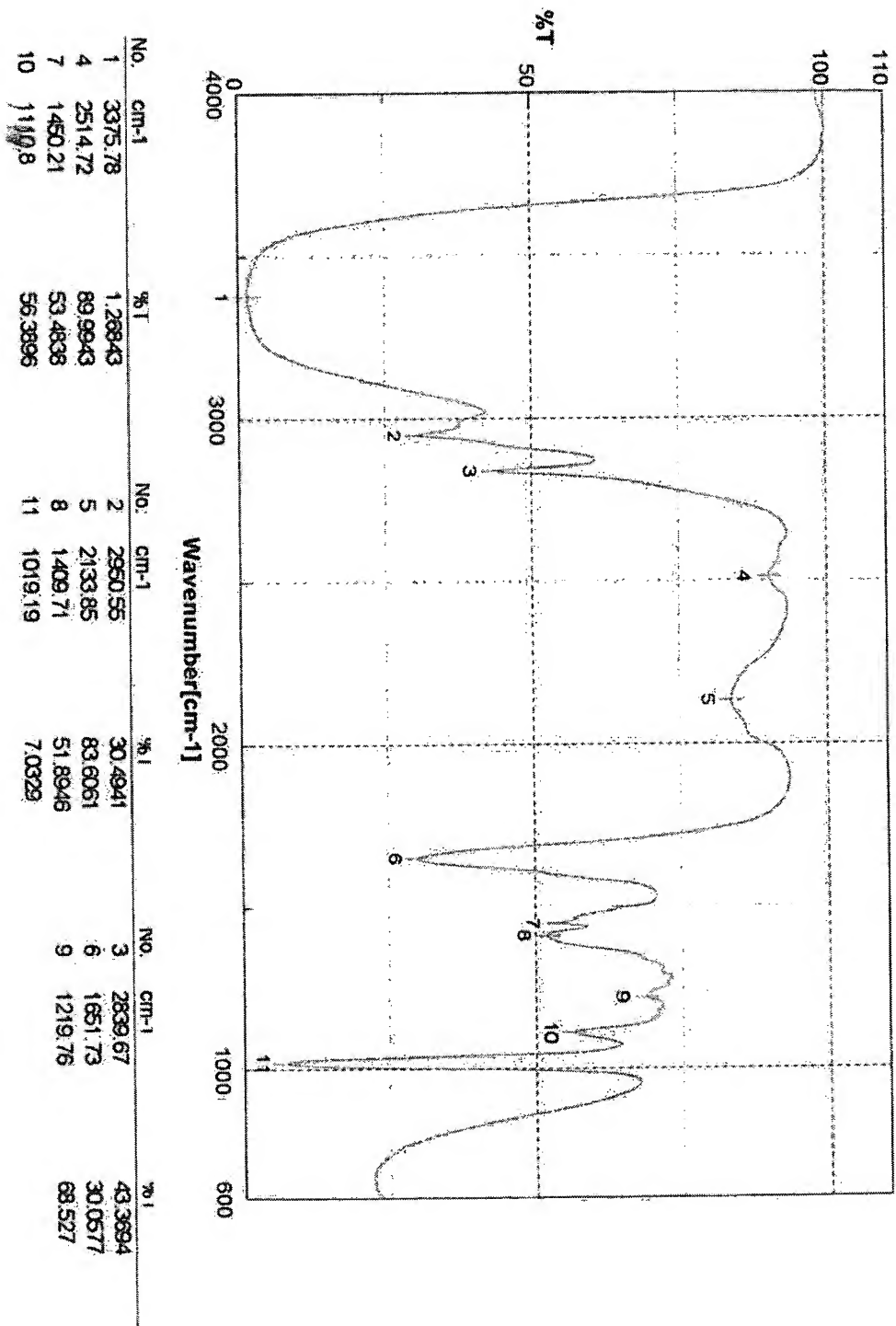


Fig.4

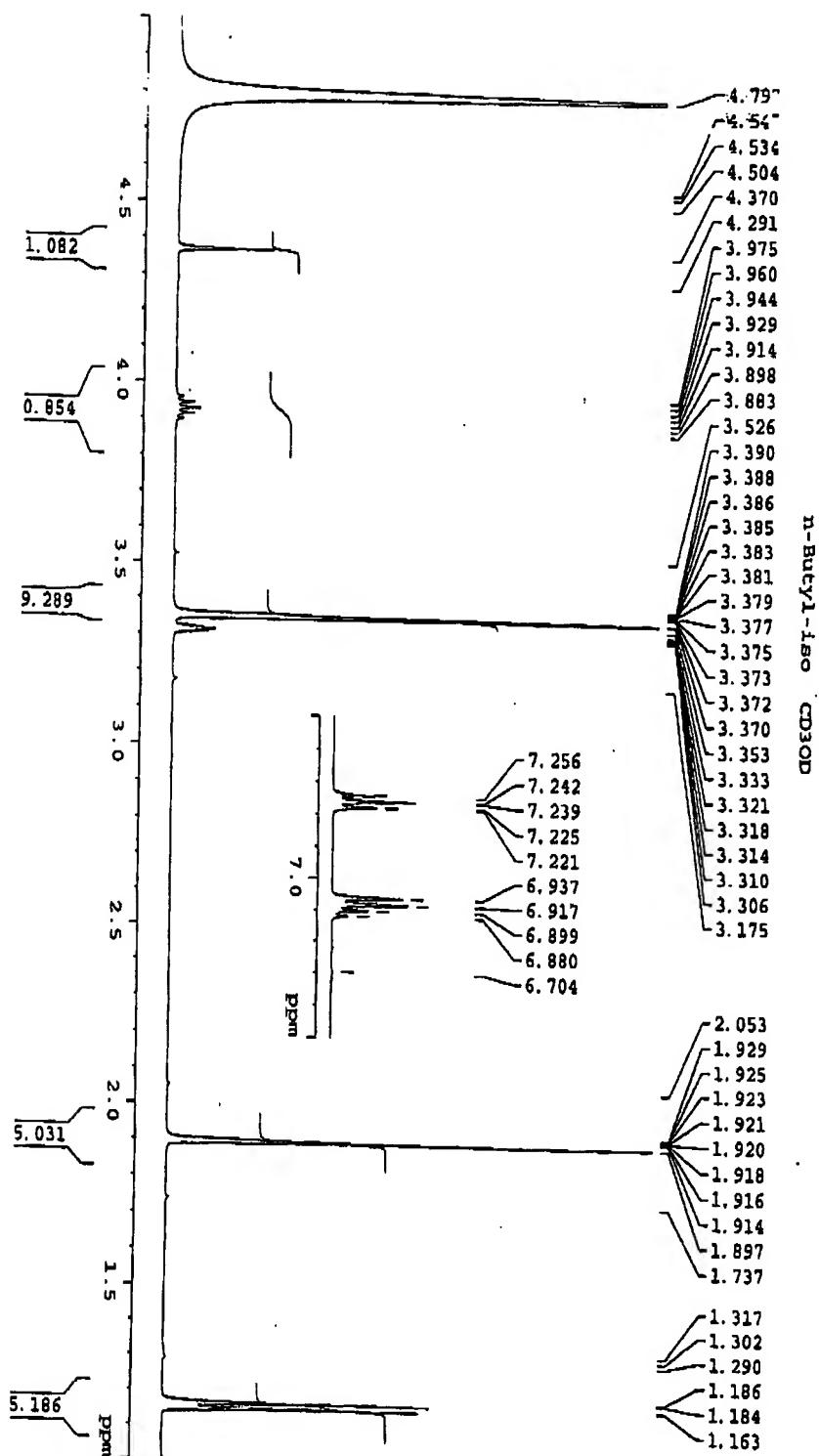


Fig.5

Line#: 1 R Time: 5.527 (Scan#: 332) Negative
MassPeaks: 201 BasePeak: 345.05 (251497)
RawMode: Averged 4.697-5.764 (282-346)
BG Mode: Averged 6.766-8.479 (406-509)

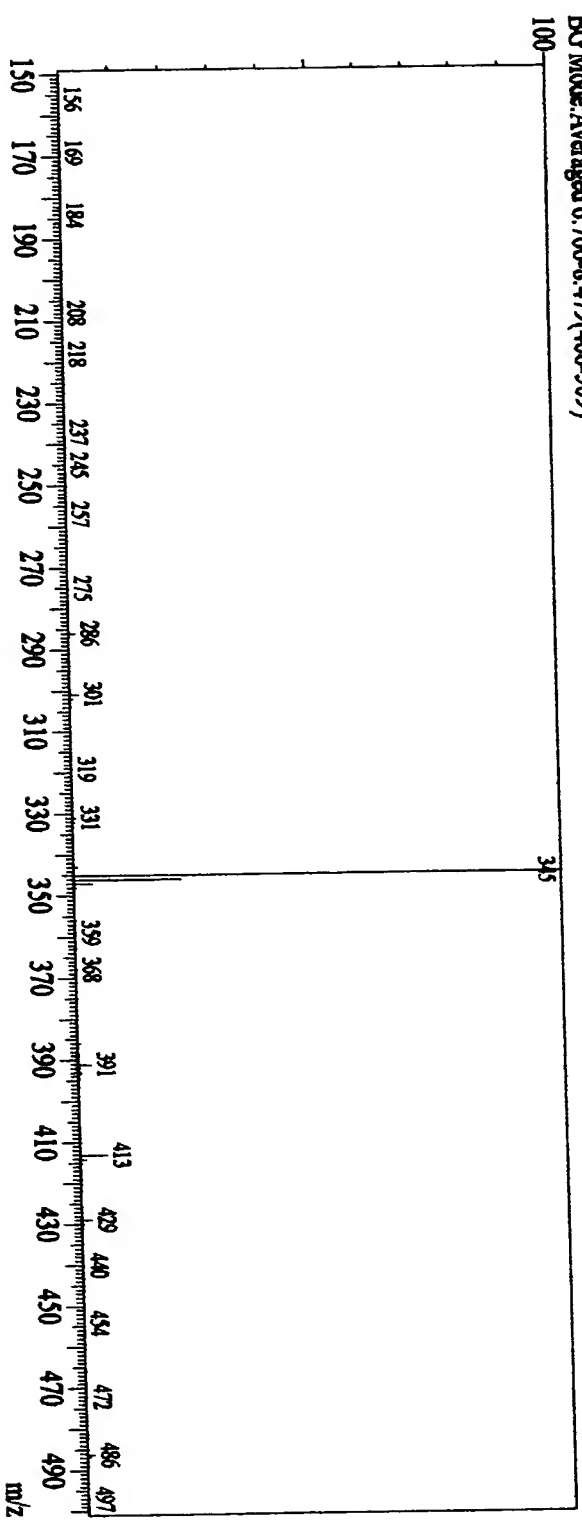


Fig. 6

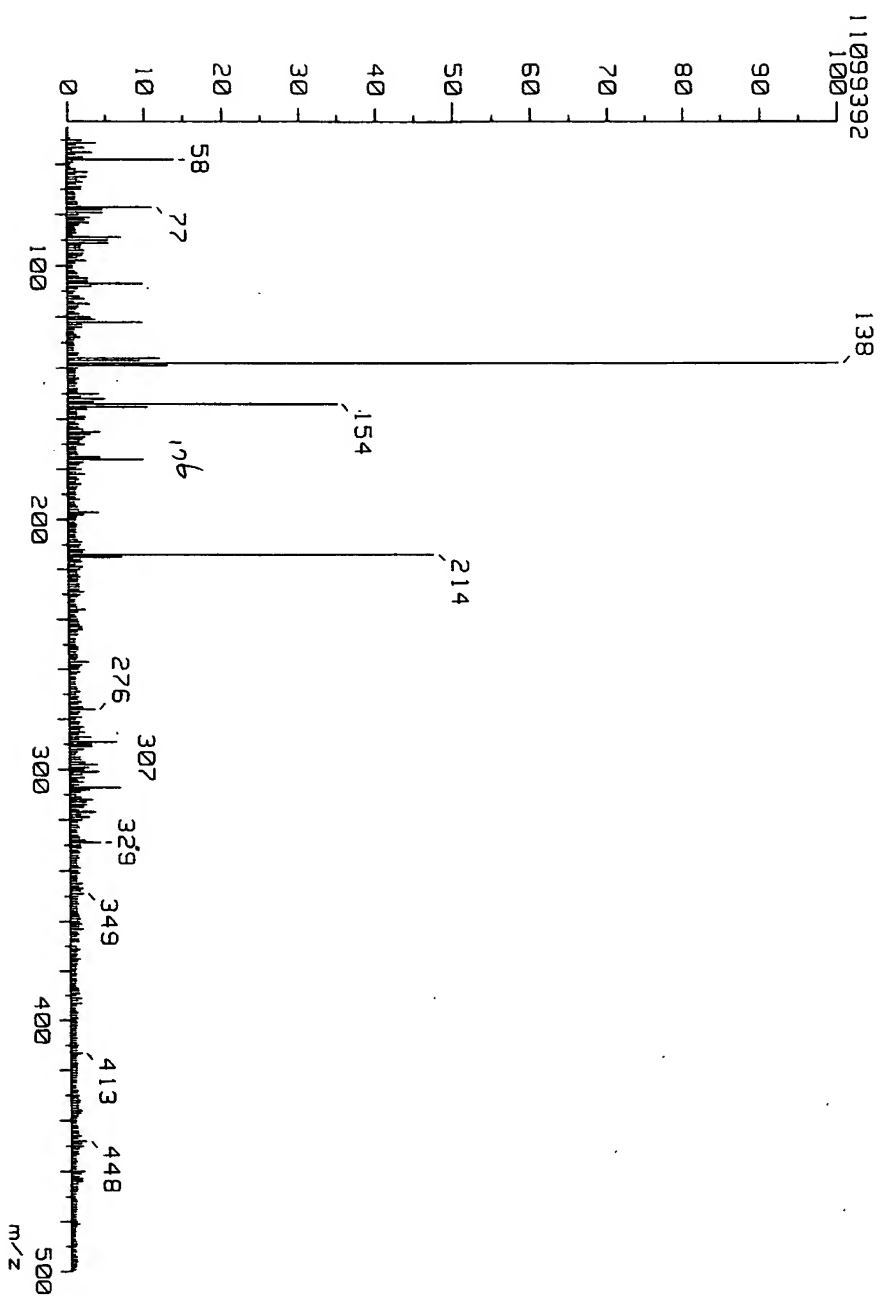


Fig. 7

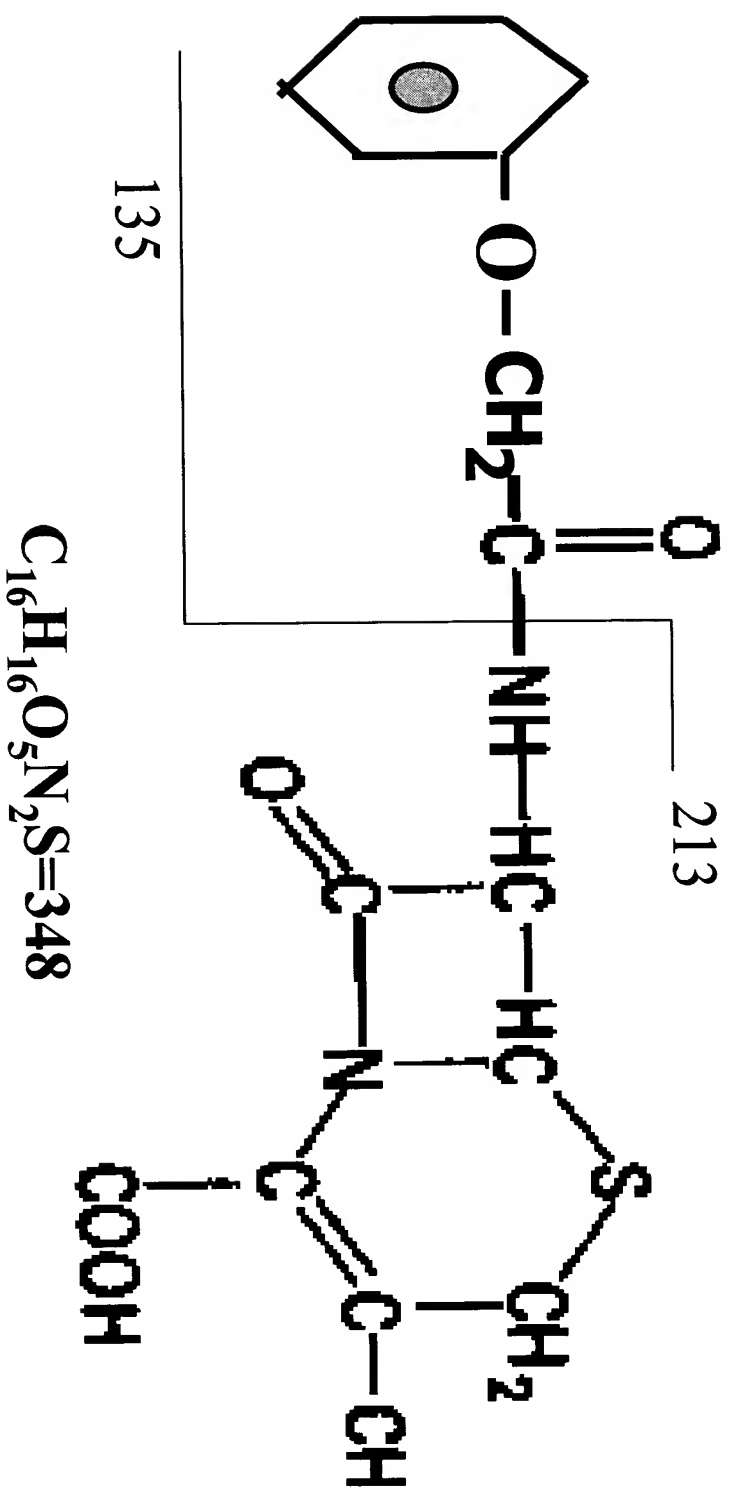


Fig. 8

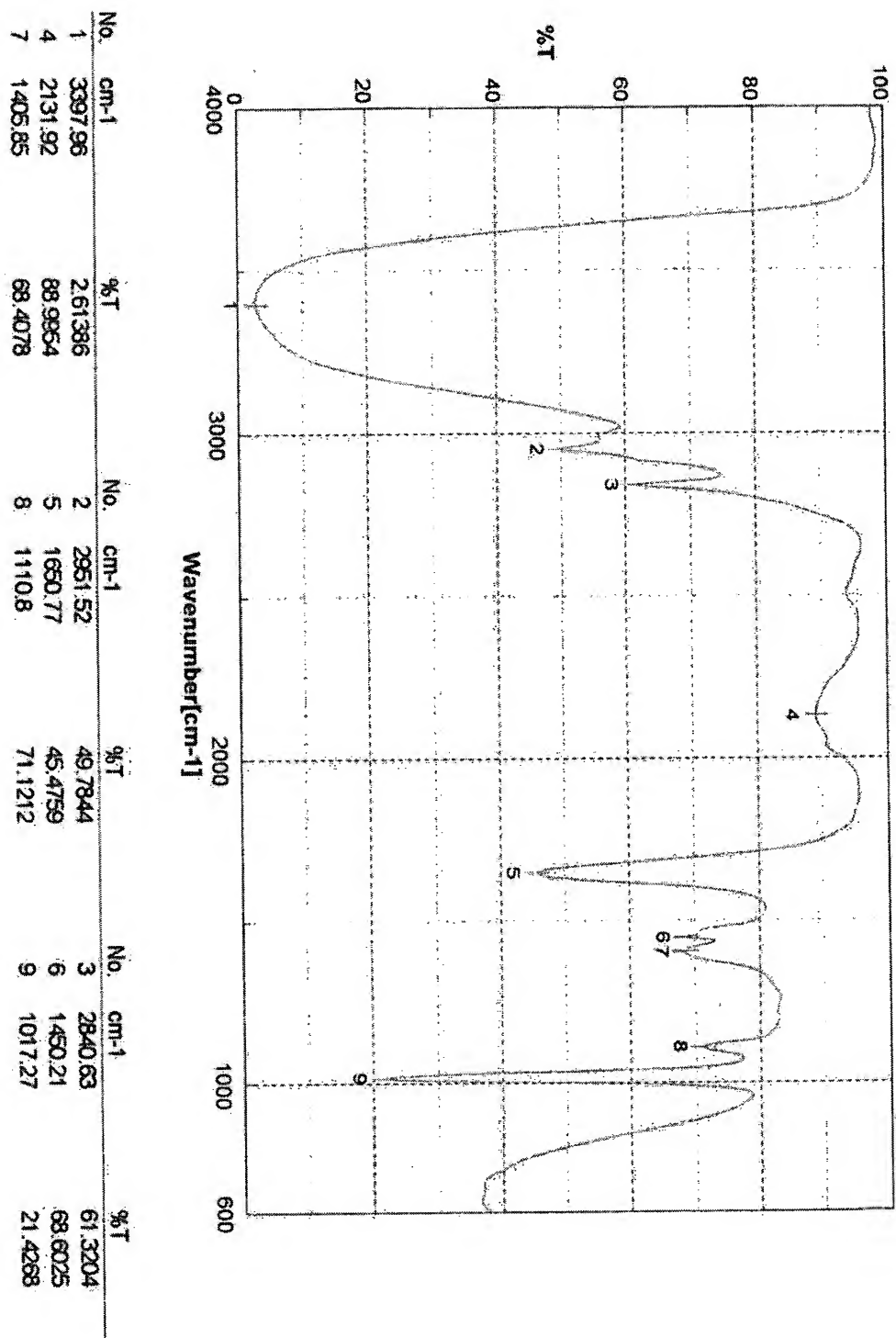


Fig. 9

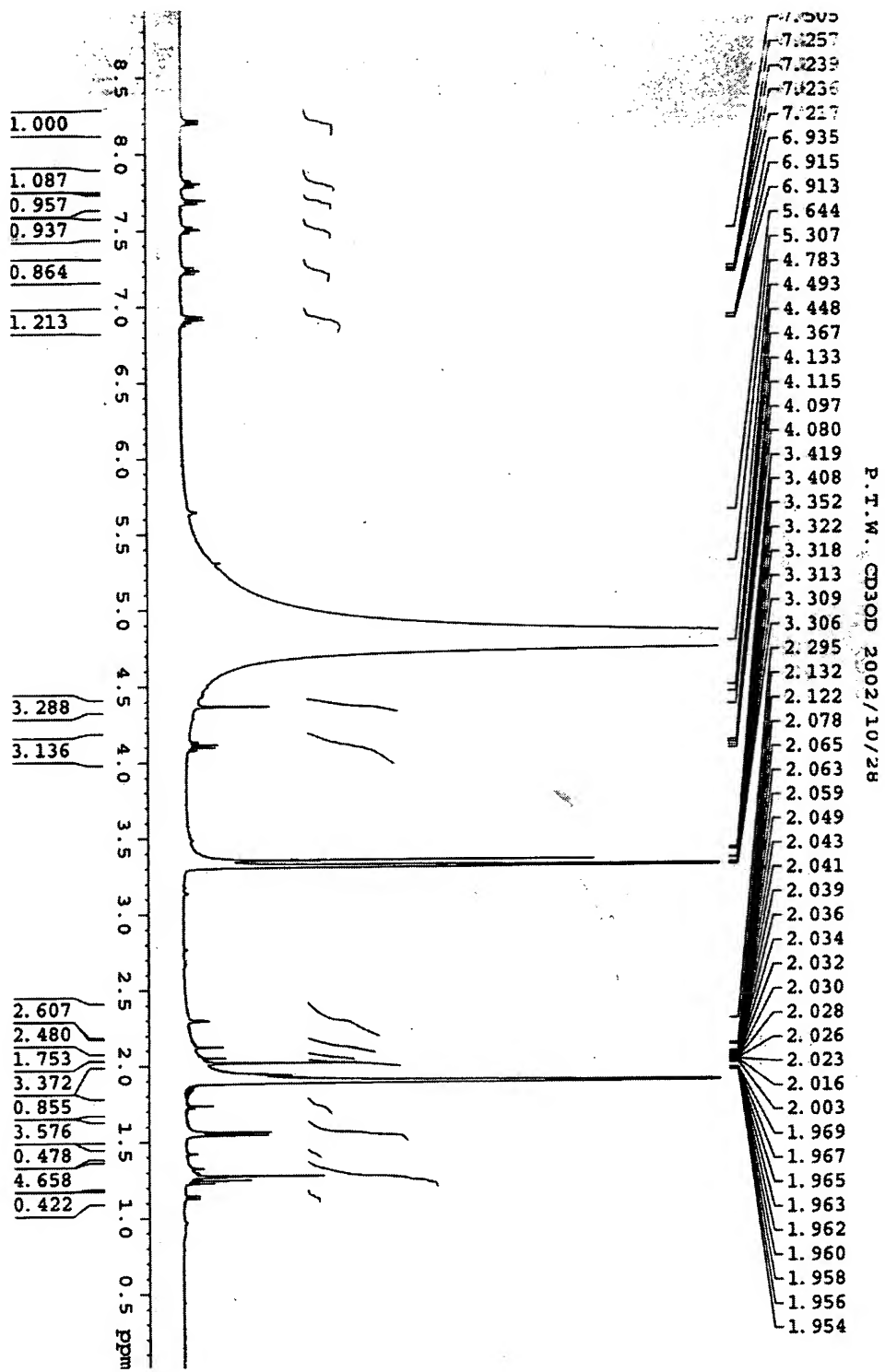


Fig. 10

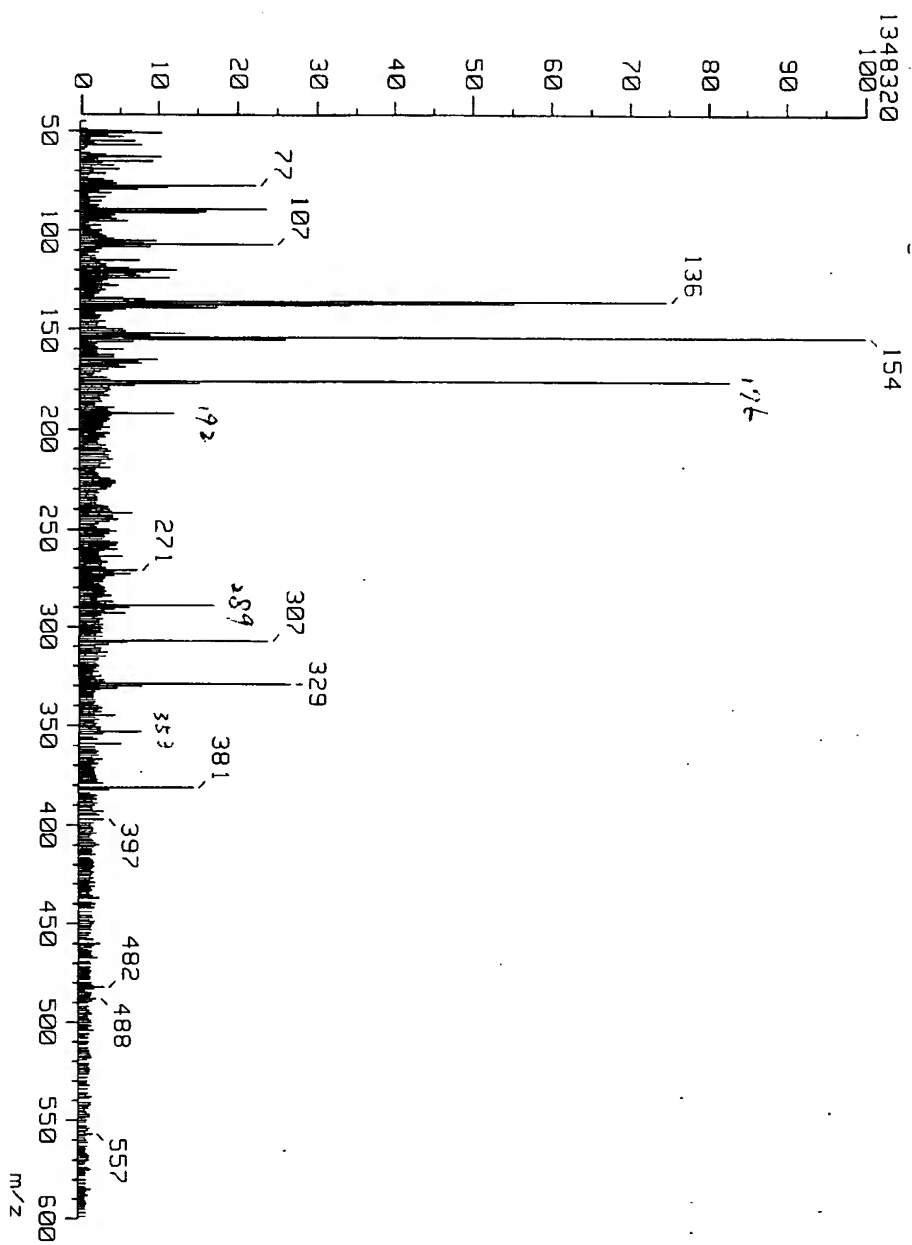


Fig. 11

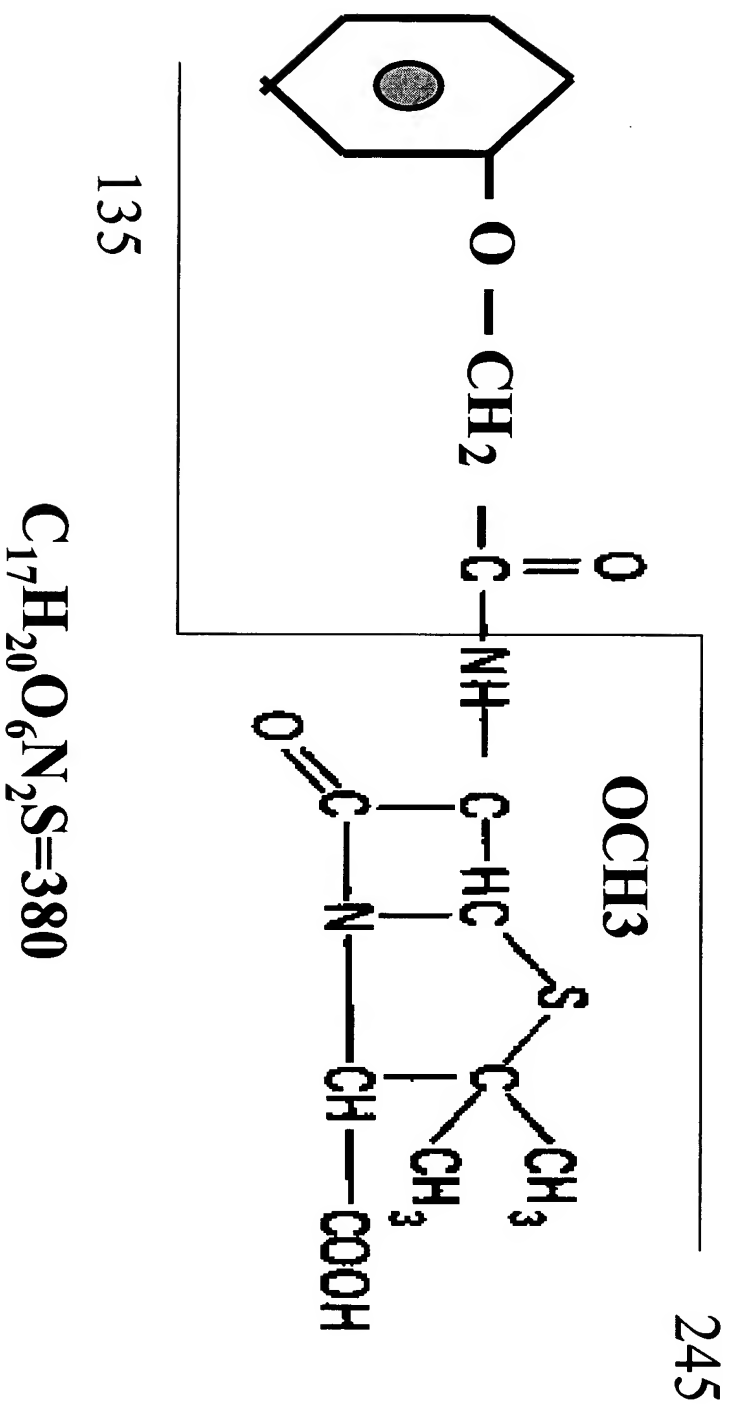


Fig. 12

Line#: 2 R.Time: 3.293(Scan#: 198) Negative
Mass Peaks: 165 BasePeak: 325.00(3653)
Raw Mode: Averaged 2.577-3.443(155-207)
BG Mode: Averaged 1.268-2.134(77-128)

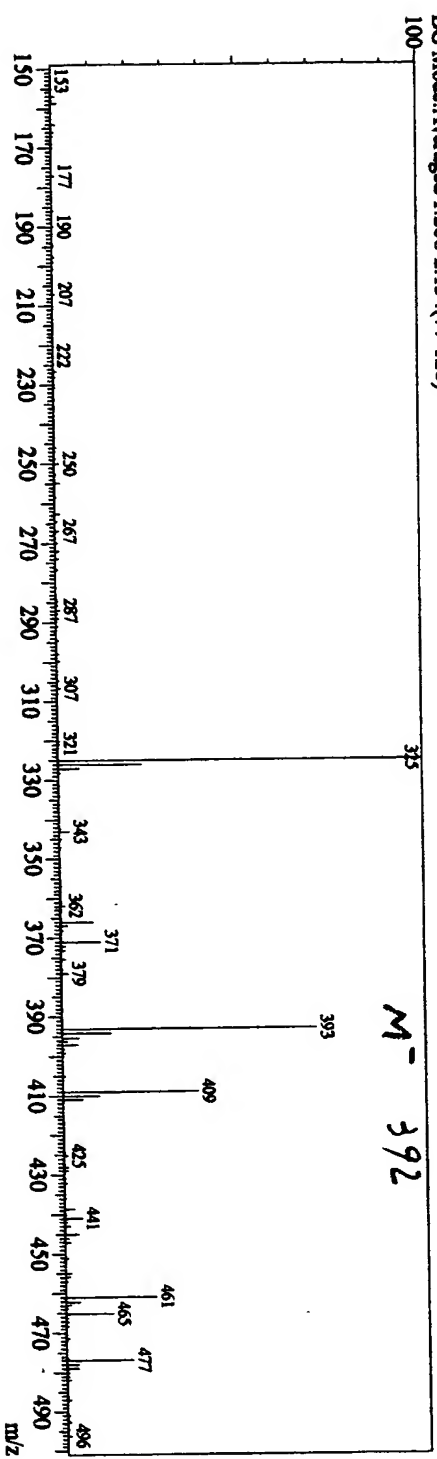


Fig. 13

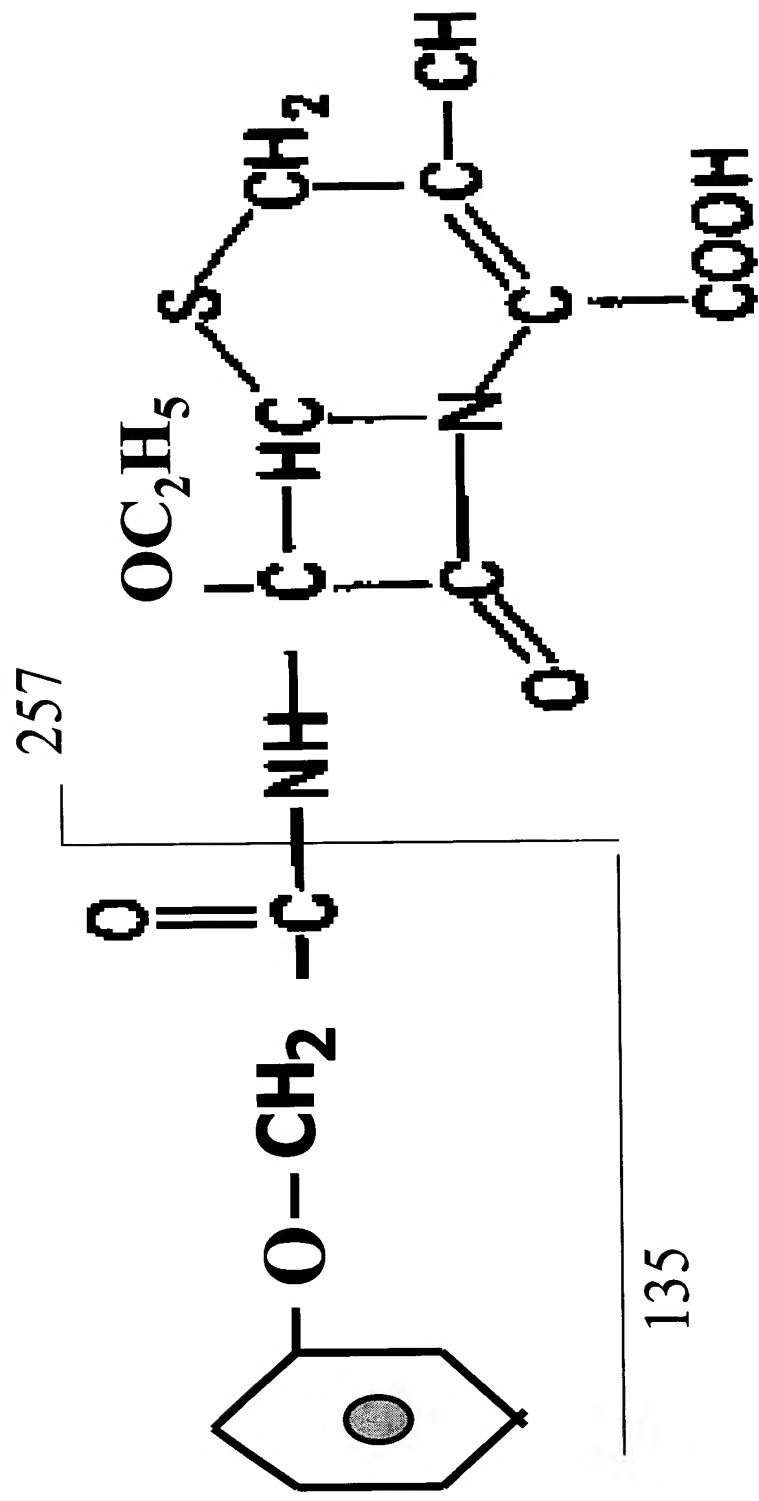


Fig.14